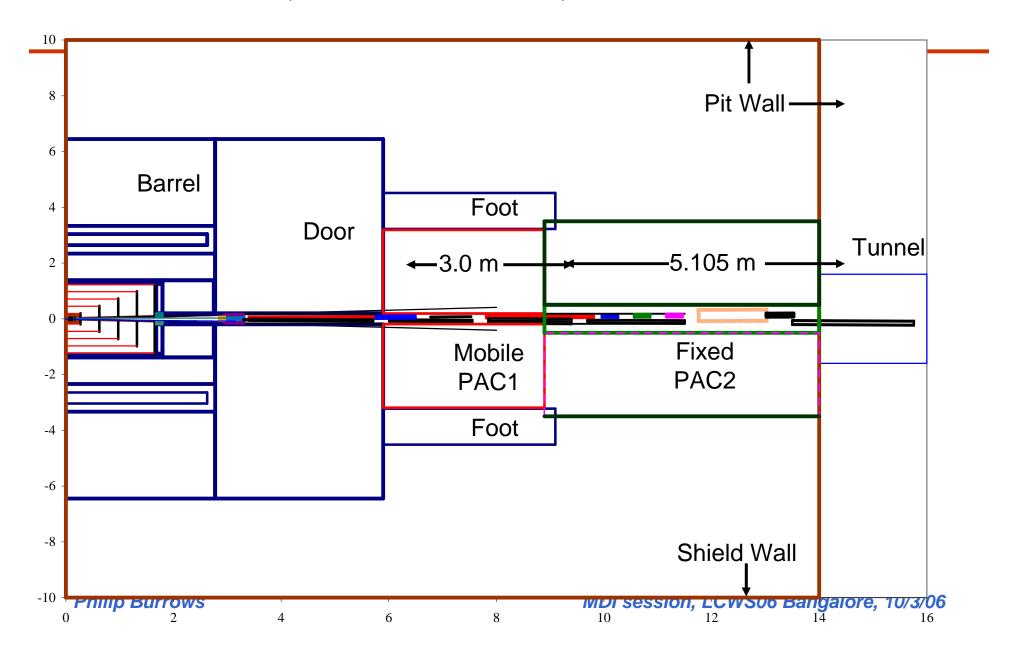
# SiD closed, on beamline, in 20m x 28m area



### **Detector access considerations**

#### **Door support leg overhang**

3.2m ~25% door height (=barrel diameter=12.9m)

#### **Door opening**

- 3.0m

#### Free space to walk around door ends

- 1.9m

#### Reserved radius

- 8.0m (6.45 iron + 1.55m services)

#### Free space between dressed barrel & pit walls

- 2.0m

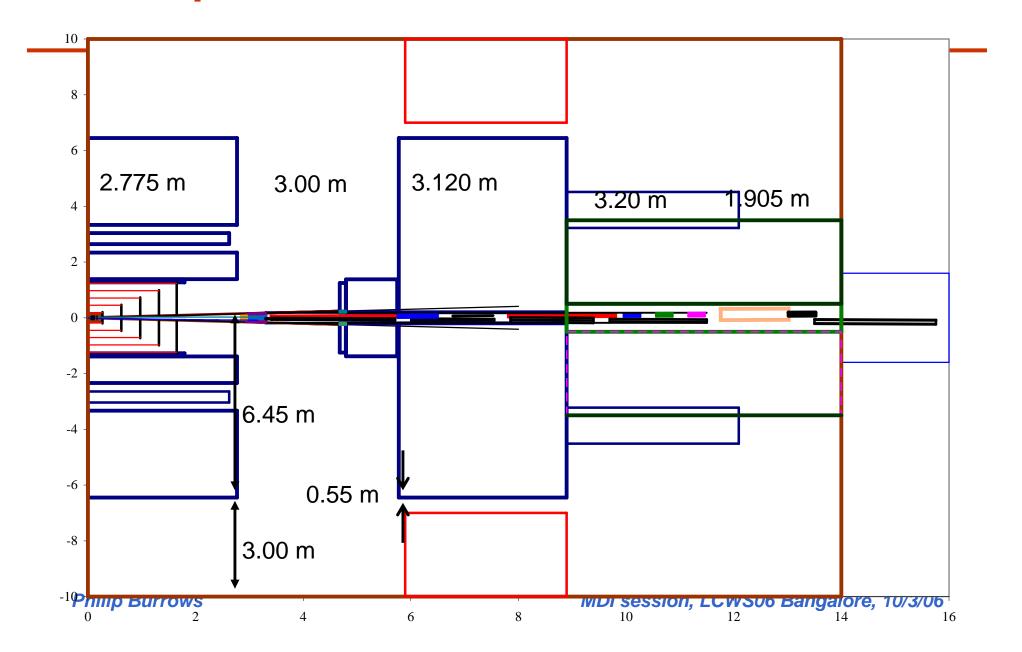
#### **PACMAN** annulus

3.0m [1m Fe, 2m concrete]

#### Other

- Tunnel diameter 3.2m
- Assumed beam height=Barrel radius + 1m

# SiD open, on beamline, in 20m x 28m area

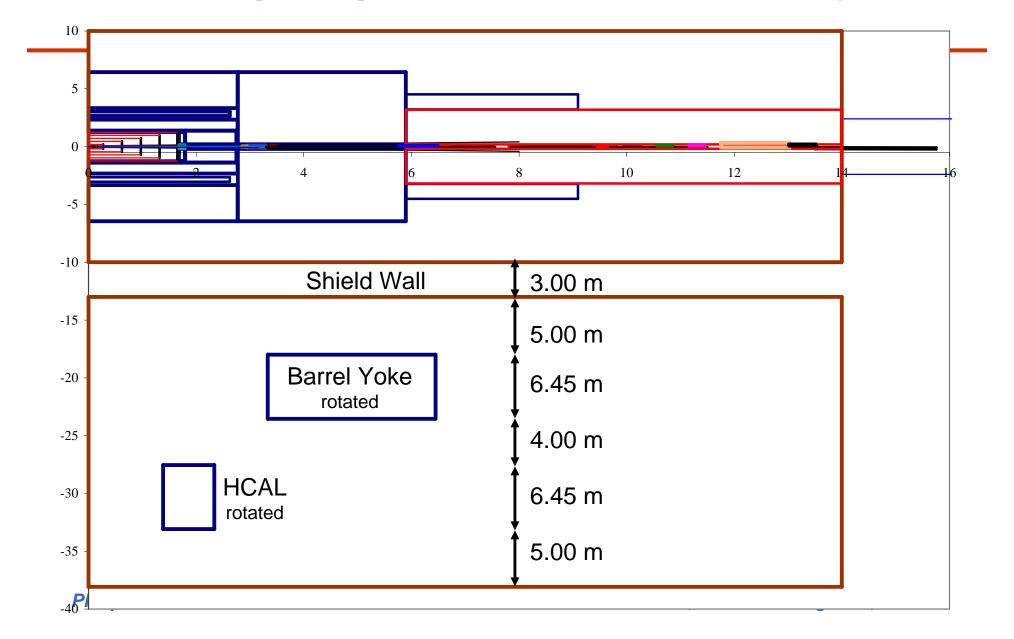


# **Detector assembly considerations**

### **Garage assembly requirements:**

- 3m shielding wall between beamline position & garage
  - assuming self-shielding
  - wall needed for commissioning only
- 5m free space between shield wall & rotated barrel yoke
  - 2m free + 2m assembly fixture + 1m free
- 4m free space between rotated barrel yoke & rotated barrel HCAL
  - 1m free + 2m assembly fixture + 1m free
- 5m free space between rotated barrel HCAL & pit wall
  - 2m free + 2m assembly fixture + 1m free

# SiD garage space for assembly



## **Elevation view**

Pit Elevation: 33m

- 1.000 Barrel-floor
- 12.90 Detector diameter
- 12.90 Free space above detector
- 6.000 Crane bridge and hook

